

04/28/14 Agenda

- Review Homework
 - ~~Worksheet 2~~ - Graph Using AoS & Vertex
- Review for NGA Final
- Tuesday (4/29) - NGA Final

Simplify each sum or difference:

$$6r^3 + 7r^3$$

$$13r^3$$

$$(5g - 2g) + (2g^2 + 6g)$$

$$3g + 2g^2 + 6g$$

$$2g^2 + 9g$$

Simplify each product:

$$2x(4x^2 - 7x + 6)$$

$$8x^3 - 14x^2 + 12x$$

$$(2s + 7)^2$$

$$(2s + 7)(2s + 7)$$

	2s	+7
2s	4s ²	+14s
+7	+14s	+49

$$4s^2 + 28s + 49$$

#9

$$(4x - 1)(2x + 5)$$

	4x	-1
2x	8x ²	-2x
+5	+10x	-5

$$8x^2 + 18x - 5$$

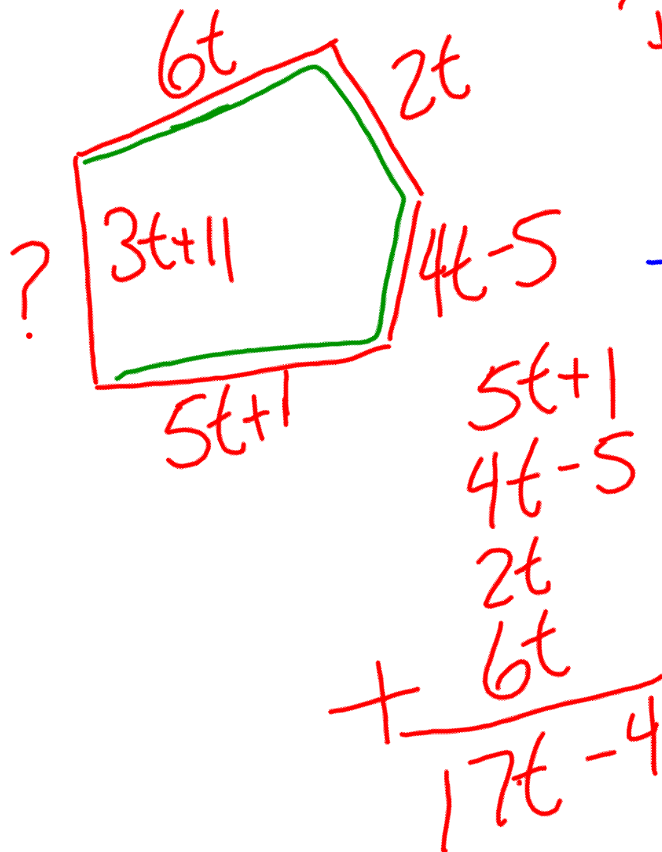
$$(4x - 1)(2x + 5)$$

$$8x^2 + 20x - 2x - 5$$

$$8x^2 + 18x - 5$$

13. The perimeter of a pentagon is $20t + 7$. Four sides have the following lengths: $6t$, $2t$, $4t - 5$, and $5t + 1$. What is the length of the fifth side?

PERIMETER IS THE DISTANCE AROUND AN OBJECT.



$$\begin{array}{r}
 P = 20t + 7 \\
 - (17t - 4) \\
 \hline
 3t + 11
 \end{array}$$

$$P = 20t + 7$$

$$\begin{array}{r}
 -17t - 4 \\
 \hline
 3t + 11
 \end{array}$$

7 + 4 = 11
-4
= +4

14. The area of a rectangular field is given by the trinomial $t^2 - 4t - 45$. The length of the rectangle is $t + 5$. What is the expression for the width of the field?

$$t + 5$$

$$w = t - 9$$

$$A = L \cdot W$$

$$A = t^2 - 4t - 45$$

$$(t + 5)(t - 9)$$

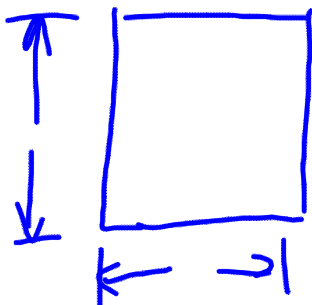
	$t + 5$
t	t^2
-9	-45

$$\begin{array}{r} 1 \cdot -45 \\ \text{a.c.} = -45 \\ 1, -45 \\ \hline 5, -9 \end{array}$$

16. The area of a square room is $16x^2 + 72x + 81$. What is the length of one side of the room?

$$A_{\text{square}} = S \cdot S$$

$$= S^2$$



$$16x^2 + 72x + 81$$

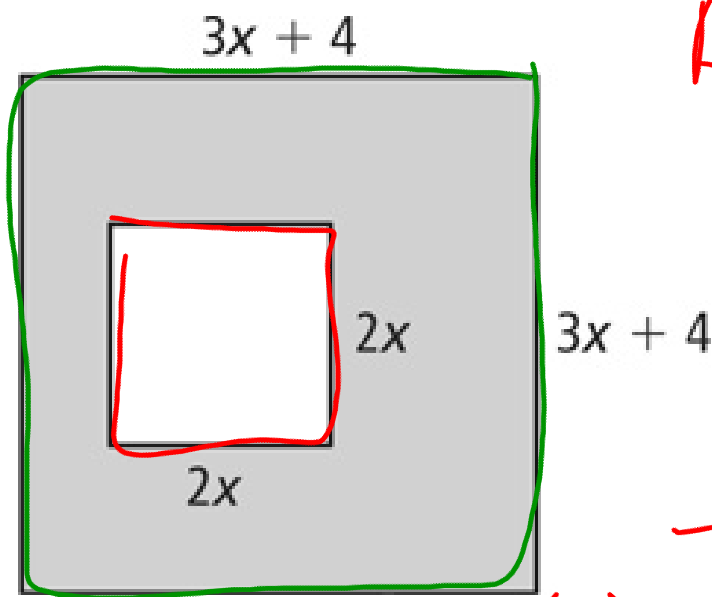
$$(4x + 9)(4x + 9)$$

	$4x + 9$	
$4x$	$16x^2$	$+36x$
$+9$	$+36x$	$+81$

$+72x$

Find an expression for the area of the shaded region:

19.



$$A_{\text{small}} = (2x)(2x) \\ = 4x^2$$

$$A_{\text{TOTAL}} = (3x+4)(3x+4)$$

$$9x^2 + 12x + 12x + 16$$

$$9x^2 + 24x + 16$$

$$- 4x^2$$

$$5x^2 + 24x + 16$$